SUPERMAN
DC
NATIONAL COMICS
SEPT. NO. 54
APPROVED BY THE COMICS CODE AUTHORITY
MYSTERY IN SPACE
10¢
ADAM STRANGE JOURNEYS 25 TRILLION MILES TO BATTLE...
"The INVADERS from the UNDERGROUND WORLD!"

Don't Spend Your Life on the Sidelines

...WATCHING BIG BRAWNY HE-MAN GRAB THE MOST ATTENTION, THE BEST JOBS, THE PRETTIEST GIRLS!

TROPHY GIVEN AWAY
Win this handsome Trophy over 1½ ft. high

PROVE TO YOURSELF THAT I CAN MAKE YOU A *Real Man*

...The Same NATURAL Way I Changed Myself from a 97-pound Weakling into "The World's Most Perfectly Developed Man"

Charles Atlas

ARE you "fed up" with seeing the huskies walk off with the best of everything? Sick and tired of being soft, frail, skinny or flabby—only HALF ALIVE? I know just how you feel. Because I myself was once a puny 97-pound "runt." And I was so ashamed of my scrawny frame that I dreaded being seen in a swim suit!

The Secret of How I Got My Build

Then I discovered a wonderful way to develop my body fast. It worked wonders for me—changed me from the scrawny "runt" I was at 17, into "The World's Most Perfectly Developed Man." And I can build up YOUR body the very same natural way — without weights, springs or pulleys. Takes only 15 minutes a day of pleasant practice, right in the privacy of your room.

My "Dynamic Tension" method has already helped thousands of other fellows become real he-men in double-quick time. Let it help YOU. Not next month or next year —but Right NOW!

My Amazing "Dynamic Tension" Method Builds "Hard-As-Nails" Muscles FAST!

If you're like I was, you want a powerful, muscular, well-proportioned build you can be proud of any time, anywhere. You want the "Greek-God" type of physique that women rave about at the beach—the kind that makes all the other fellows turn green with envy.

I'll give you arms with bulging biceps. Fists that can deliver knock-out punches. A chest that will pop the buttons off your shirts. I'll build up your shoulder and back muscles. Taper you down at the waist and give you layers of hard stomach muscles with spring-steel toughness.

This Is the Kind of Bodies I Build with "Dynamic Tension"!

Fast Results

"Five inches of new muscle—that is what you have done for me—and in almost no time."
—C.W., W. Va.

Gained 29 Pounds

"When I started your course I weighed only 141 pounds. Now weigh 170 pounds."
—T.K., New York

Mail Coupon Now for My FREE BOOK

Mailing the coupon below can be the turning point in your life. I'll send you a FREE copy of my book "How Dynamic Tension Makes You a NEW MAN." Tells how and why my method works: shows many pictures proving what it has done for others. Don't delay. Clip that coupon NOW. CHARLES ATLAS, Dept. 354-J 115 East 23rd Street, New York 10, N. Y.

CHARLES ATLAS, Dept. 354-J
115 East 23rd St., New York 10, N. Y.

Dear Charles Atlas: Here's the kind of Body I Want:

(Check as many as you like)

- ☐ Broader Chest and Shoulders
- ☐ Live Stomach Muscles
- ☐ Tireless Legs
- ☐ Slimmer Waist and Hips
- ☐ More Energy and Stamina
- ☐ More Magnetic Personality
- ☐ More Weight—Solid—in the Right Places

Send me absolutely FREE a copy of your famous book showing how *"Dynamic Tension"* can make me a new man. 32 pages, crammed with photographs, answers to vital health questions, and valuable advice. This does not obligate me in any way.

NAME ..... AGE.....
(please print or write plainly)

ADDRESS .....

CITY ..... ZONE.... STATE.....

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ADAM STRANGE

WHAT A SPOT TO BE IN! THE INVADERS FROM UNDERGROUND CONSIDER ME THEIR ENEMY-- AND SO DO THE WARRIORS OF RANN!
SHOOT ADAM STRANGE!
SHOOT ADAM STRANGE!

HAVING DISCOVERED THE TELEPORTATIONAL SECRET OF THE ZETA-BEAM, ADAM STRANGE USES IT TO HURL HIS EARTHLY BODY ACROSS 25 TRILLION MILES OF SPACE TO THE PLANET RANN! PREVIOUSLY, WHENEVER ADAM LANDED ON RANN HE HAD BEEN OBLIGED TO FIGHT OFF MENACES THAT THREATENED THE PLANET! THIS TIME, THE EARTHMAN HIMSELF IS REGARDED AS RANN'S GREATEST MENACE!

INVADERS OF THE UNDERGROUND WORLD!

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HIGH ABOVE THE BROAD REACHES OF THE PACIFIC OCEAN, ADAM STRANGE HOVERS OVER A CLOUDBANK, WAITING --
ACCORDING TO MY CALCULATIONS, THE ZETA-BEAM FROM THE PLANET RANN WILL ARRIVE AT THIS POINT IN 60 SECONDS!

THEN TO HIS HORROR HE SEES A SUPER-CONSTELLATION PASSENGER PLANE CUTTING A PATH ACROSS THE SKY ON ITS RUN FROM SYDNEY, AUSTRALIA, TO SAN FRANCISCO --
IT'S COMING STRAIGHT FOR ME! GOT TO GET IT TO CHANGE ITS COURSE, OR THE ZETA-BEAM WILL TELEPORT THE PLANE TO RANN -- INSTEAD OF ME!

IN THE FLIGHT STATION OF THE SUPER-CONSTELLATION ITS PILOT STARES IN NUMB AMAZEMENT..
A SPACEMAN -- FLOATING IN MID-AIR! I'VE HEARD OF PILOTS WHO SAW FLYING SAUCERS -- BUT NEVER A FLYING SPACEMAN! HE'S SIGNALING ME TO -- GET OUT OF THE WAY!

AT THE LAST MOMENT THE PLANE VEERS ASIDE...
HE'S FADING OUT -- DISAPPEARING -- GONE! THIS COULDN'T HAVE HAPPENED... IT MUST HAVE BEEN AN OPTICAL ILLUSION!

OPTICAL ILLUSION? HARDLY! FOR THE "FLYING SPACEMAN" IS ADAM STRANGE -- EARTH-MAN -- WHO HAS DISCOVERED THAT WHEN A ZETA-BEAM -- ORIGINATING FROM THE PLANET RANN, OF THE STAR-SUN ALPHA CENTAURI --
--STRIKES AN EARTH-OBJECT, IT IS INSTANTLY TELEPORTED BACK TO RANN, 25 TRILLION MILES AWAY!

AS ALWAYS, THE MOMENT ADAM STRANGE LANDS ON RANN, HE LOOKS FOR ALANNA, THE GIRL HE HAS GROWN TO LOVE...
HERE SHE COMES -- HUH? SHE'S FRANTICALLY MOTIONING TO ME -- JUST AS I MOTIONED TO THE AIRPLANE PILOT -- WARNING ME AWAY!
ADAM -- LOOK OUT! DANGER --
2

AS HE LOOKS UP IN ALARM, ADAM SEES THREE UNIFORMED RANAGARIANS HURTLING TOWARD HIM!
WHAT--?

WHY ARE THEY ATTACKING ME? WHAT HAVE I DONE?

EVERY TIME I'VE COME HERE, RANN HAS BEEN IN DANGER! THIS TIME IT SEEMS I'M THE ONE IN ALL THE TROUBLE! THESE GRAVITY BUBBLES OUGHT TO KNOCK THOSE TWO OUT OF ACTION!

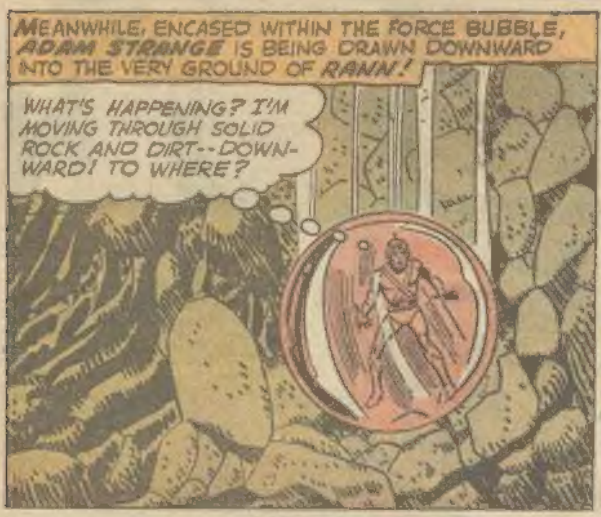
ADAM STRANGE, YOU'RE UNDER ARREST-- OHH!
THE STUN-BEAM WILL TAKE CARE OF--ARREST? ALANNA--ARE THESE MEN LAW OFFICERS?

YES, ADAM! THE HIGH COUNCIL OF RANAGAR CITY HAS ACCUSED YOU OF STEALING OUR WAR WEAPONS-- AND HAS ORDERED YOUR ARREST!
THAT'S RIDICULOUS-- IMPOSSIBLE! BESIDES, I'VE ALWAYS BEEN A FRIEND TO RANAGAR! STILL, I WON'T OPPOSE THE LAWMEN ANY MORE! I'LL GIVE MYSELF UP!

YOU MEN SHOULD HAVE SPOKEN UP SOONER! IF I HAD KNOWN YOU WERE OFFICERS I WOULDN'T HAVE RESISTED YOU!
ADAM, IF ONLY YOU COULD RETURN TO EARTH! YOU DON'T UNDERSTAND THE SERIOUSNESS OF THE CHARGE AGAINST YOU!
XALTAN TOR, YOUR ACCUSER, IS A POWERFUL MAN IN RANAGAR! THOUGH MY FATHER IS DEFENDING YOU, XALTAN TOR IS CHIEF OF THE GREAT COUNCIL WHICH WILL JUDGE YOUR GUILT OR INNOCENCE!
I'M INNOCENT! NOTHING WILL HAPPEN TO ME!
ENTERING RANAGAR, ADAM STRANGE IS TAKEN TO THE HALL OF JUSTICE WHERE HE FACES HIS STERN ACCUSER BEFORE THE GREAT COUNCIL...
YOU HAVE BEEN OUR "CHAMPION"--BUT ONLY TO WORM YOUR WAY INTO OUR CONFIDENCE AND STEAL OUR MILITARY WEAPONS!
THAT ISN'T TRUE!
GCR
THE SOLID STEEL WALLS OF THE VAULT WHERE THE WEAPONS WERE KEPT ARE OVER THREE FEET THICK! THE REST IS SOLID ROCK! TRUSTED GUARDS PATROLLED THE VAULT DOOR!
GUARDS
SOLID ROCK
STEEL
WEAPONS IN HERE
VAULT DOOR
STEEL
ONLY YOU--WITH YOUR MYSTERIOUS POWER TO APPEAR AND DISAPPEAR AT WILL--COULD HAVE TAKEN THEM! YOU MATERIALIZED YOURSELF INSIDE THE VAULT, ROBBED US, THEN TELEPORTED YOURSELF BACK TO EARTH!
I CAN'T APPEAR AND DISAPPEAR OF MY OWN FREE WILL! IF I COULD--WOULD I STAY HERE AND BE PUNISHED FOR SOMETHING I DIDN'T DO?
EVEN AS ADAM PROTESTS HIS INNOCENCE...
LOOK! A PROTECTIVE FORCE BUBBLE IS FORMING AROUND THE EARTHMAN! THE EARTH WARLORDS WILL NOT PERMIT US TO HARM HIM!

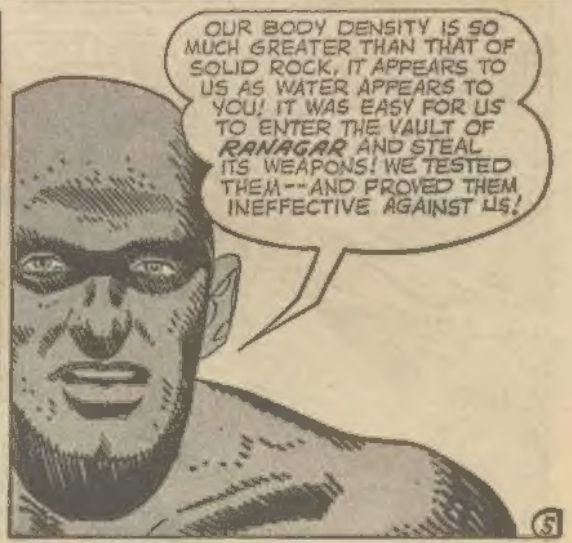
AN INSTANT LATER, THE WITNESS IS GONE!
THERE'S PROOF OF HIS GUILT! HE DISAPPEARED RIGHT BEFORE OUR EYES WHEN WE ACCUSED HIM!
GUILTY! GUILTY!
ADAM NEVER DISAPPEARED IN A BUBBLE BEFORE! HE ALWAYS FADED AWAY!
GCR

I ASK THE SUPREME PENALTY AGAINST ADAM STRANGE! I ASK THAT HE BE SHOT DOWN WITHOUT QUESTION IF EVER HE RETURNS TO RANAGAR!
YES, YES!
OH! OHHH-- NO!

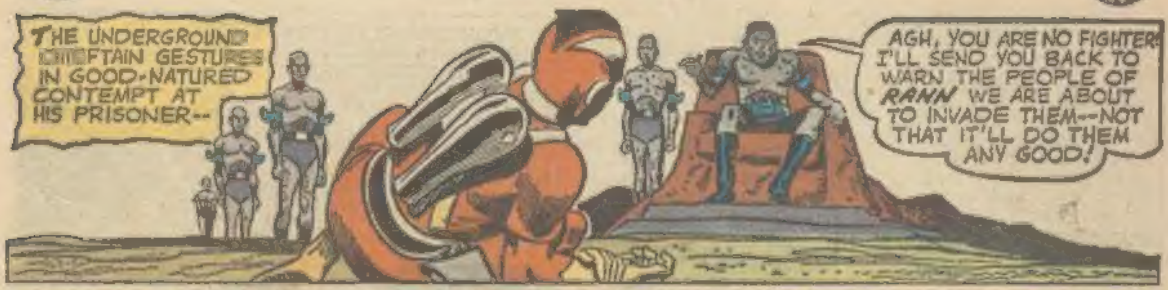

MEANWHILE, ENCASED WITHIN THE FORCE BUBBLE, ADAM STRANGE IS BEING DRAWN DOWNWARD INTO THE VERY GROUND OF RANN!
WHAT'S HAPPENING? I'M MOVING THROUGH SOLID ROCK AND DIRT--DOWNWARD! TO WHERE?

THE BUBBLE EMERGES INTO A VAST CAVERN AND STOPS BEFORE AN ALIEN, BARBARIC THRONE!
ADAM STRANGE, WE BROUGHT YOU HERE TO OUR WORLD BENEATH THE GROUND BECAUSE WE FEAR YOU ARE THE ONLY ONE WHO COULD DEFEAT OUR FORTHCOMING INVASION OF RANN!

WE COME FROM THE CENTER OF RANN WHERE OUR CIVILIZATION HAS EVOLVED! IT IS ONLY RECENTLY THAT WE DISCOVERED HOW TO JET-PROPEL OUR BODIES THROUGH THE GROUND AS WE OURSELVES MOVE THROUGH SOLID MATTER!
B-BUT HOW DO YOU DO THAT?


OUR BODY DENSITY IS SO MUCH GREATER THAN THAT OF SOLID ROCK, IT APPEARS TO US AS WATER APPEARS TO YOU! IT WAS EASY FOR US TO ENTER THE VAULT OF RANAGAR AND STEAL ITS WEAPONS! WE TESTED THEM--AND PROVED THEM INEFFECTIVE AGAINST US!

NOW WE WANT TO KNOW WHAT SECRET WEAPONS YOU MAY USE AGAINST US WHEN WE ATTACK RANN! YOU SHALL FIGHT A WARRIOR OF MY CHOOSING! DEFEAT HIM AND WE'LL KNOW IT'S HOPELESS TO FIGHT RANN!
AS ADAM DEFTLY AVOIDS THE STONE-WARRIOR'S ATTACK...
I MUST GRAB ONE OF THE WEAPONS STOLEN FROM THE PEOPLE OF RANAGAR! IT'S THE ONLY WAY I CAN WIN!
FLYING IN ECCENTRIC CIRCLES TO AVOID THE STUN-RAYS FIRED AT HIM, ADAM STRANGE BLASTS AWAY WITH A SORAFUS GUN...
I CAN HIT HIM EASILY ENOUGH, BUT THE RAYS BOUNCE HARMLESSLY OFF HIM!
ABANDONING THE SORAFUS GUN FOR AN ENERGIZER, HE SWOOPS IN TO THE ATTACK AGAIN--
EVEN THESE ENERGY GLOBES HAVE NO EFFECT ON HIS HARDER-THAN-ROCK BODY!
DROPPING TO THE GROUND THE DARING EARTHMAN RUSHES FORWARD TO ENGAGE HIS OPPONENT AT CLOSE QUARTERS--
MY LAST HOPE IS TO STEAL HIS WEAPON AND USE IT AGAINST HIM--OHHH!
TITANIC LAUGHTER SHAKES THE GREAT CAVERN AS ADAM REELS BACK--
THE METAL OF THAT WEAPON HE USES IS SO HOT IT BLISTERED MY HAND!
HA! HA! HA! HA! HA! HA! HA!


THE UNDERGROUND CHIEFTAIN GESTURES IN GOOD-NATURED CONTEMPT AT HIS PRISONER--
AGH, YOU ARE NO FIGHTER! I'LL SEND YOU BACK TO WARN THE PEOPLE OF RANN WE ARE ABOUT TO INVADE THEM--NOT THAT IT'LL DO THEM ANY GOOD!

UNAWARE OF THE VERDICT OF THE GREAT COUNCIL, ADAM NEVERTHELESS PROCEEDS CAUTIOUSLY THROUGH THE DARK STREETS OF RANAGAR AFTER HE HAS BEEN RETURNED TO THE SURFACE
I MUST FIND ALANNA!

SOON--
ALANNA-- PSSSST!
OH, ADAM! WHERE'VE YOU BEEN? WHAT HAPPENED? DO YOU KNOW THE COUNCIL HAS DECREED YOU'RE TO BE SHOT ON SIGHT?

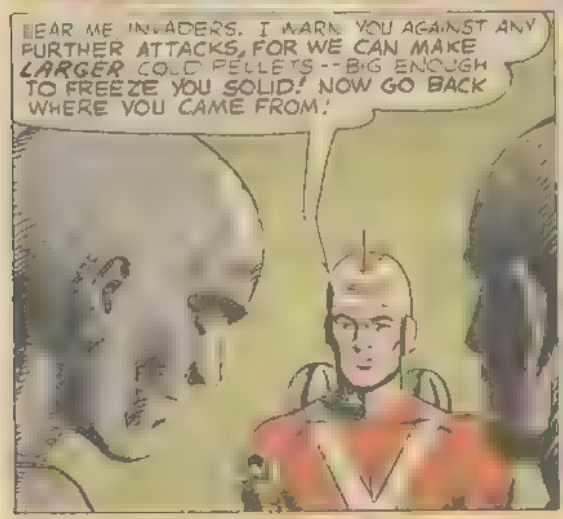
AS ALANNA ADMITS HIM TO THE TOWER, ADAM RELATES WHAT HAS HAPPENED TO HIM--
IT'S HOPELESS IF YOU DON'T KNOW HOW TO DEFEAT THEM!
BUT I DO! FIRST YOU'VE GOT TO GATHER AS MANY SHARP-SHOOTERS AS YOU CAN TRUST TO FOLLOW ME! I'LL LEAD THEM AGAINST THE UNDERGROUND INVADERS!

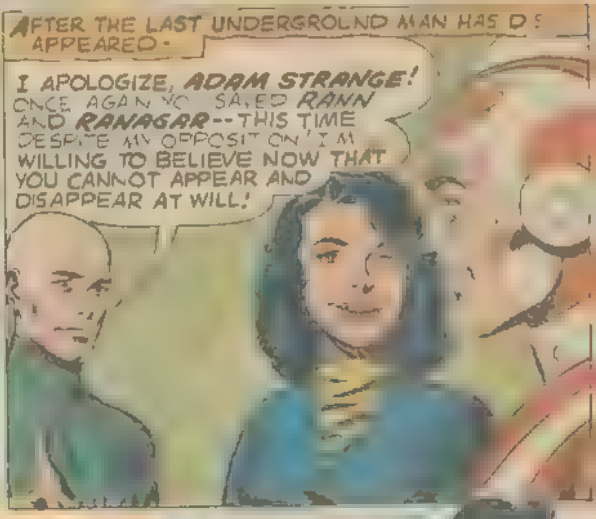
BUT IF YOU PERSONALLY LEAD THE FIGHT, THE RANAGAR ARMY WILL BE YOUR ENEMY TOO! IT'S BEEN ORDERED TO SHOOT YOU ON SIGHT!
NEVERTHELESS, IT'S A RISK I SHALL TAKE!

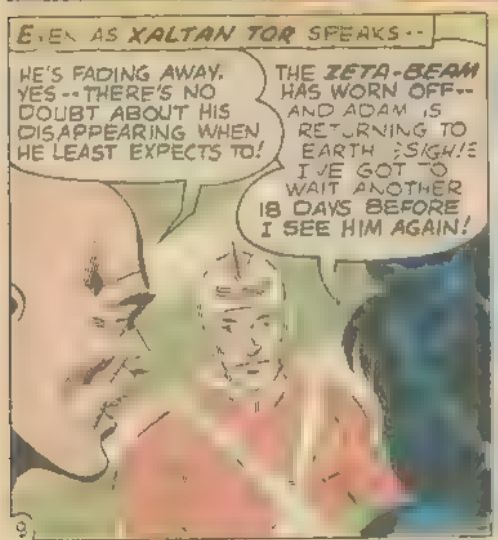
ORDER YOUR MOST TRUSTED SERVANTS TO MAKE HUNDREDS OF AMMONIUM NITRATE PELLETS! YOUR SHARPSHOOTERS WILL FIRE THEM AT THE UNDERGROUND MEN'S WEAPONS! YOU SEE, AMMONIUM NITRATE ABSORBS HEAT FROM ANY OBJECT IT TOUCHES--
I DON'T FOLLOW YOU...

WHEN I WAS FIGHTING THE UNDERGROUND MAN, I TOUCHED HIS METALLIC WEAPON! IT WAS HOT! MY THEORY IS THAT THE UNDERGROUND MEN ARE SO USED TO HIGH TEMPERATURES, THEY HAVE BECOME ACCUSTOMED TO HEAT-- BUT NOT TO COLD!
THE AMMONIUM NITRATE PELLETS WILL ABSORB SO MUCH HEAT FROM THEIR GUNS THAT THEY WILL BECOME COMPARATIVELY COLD -- WHICH WILL MAKE THEM AS PAINFUL FOR THE UNDERGROUND MEN TO HOLD AS RED-HOT GUNS WOULD BE FOR US!
WHAT AN INGENIOUS PLAN!
NEXT DAY, AFTER ALANNA HAS SPREAD THE ALARM--
HERE THEY COME! FIRE!
SUDDENLY A FAMILIAR FIGURE LAUNCHES ITSELF THROUGH THE AIR AGAINST THE UNDERGROUND INVADERS--
IT'S ADAM STRANGE! SHOOT HIM TOO!
BEFORE THE MEN OF RANAGAR CAN FIRE--
I PROMISED ALANNA I WOULDN'T TAKE TOO MUCH RISK HERE -- SO I'D BETTER PUT MY PLAN INTO OPERATION!
CAUGHT BY A REPELLORAY, THE EARTHMAN PLUMMETS GROUNDWARD--
I FAKED BEING HURT TO HOLD XALTAN TOR'S FIRE! AFTER THE REGULAR RANAGAR ARMY HAS BEEN ROUTED, I'LL JOIN ALANNA AND LEAD HER TRUSTED SHARP-SHOOTERS AGAINST THE INVADERS!

THEN, WITH THE EARTH ADVENTURER LEADING THEM, THE PICKED SHARPSHOOTERS FIRE THEIR AMMONIUM NITRATE PELLETS--
MAKE EVERY PELLET COUNT!

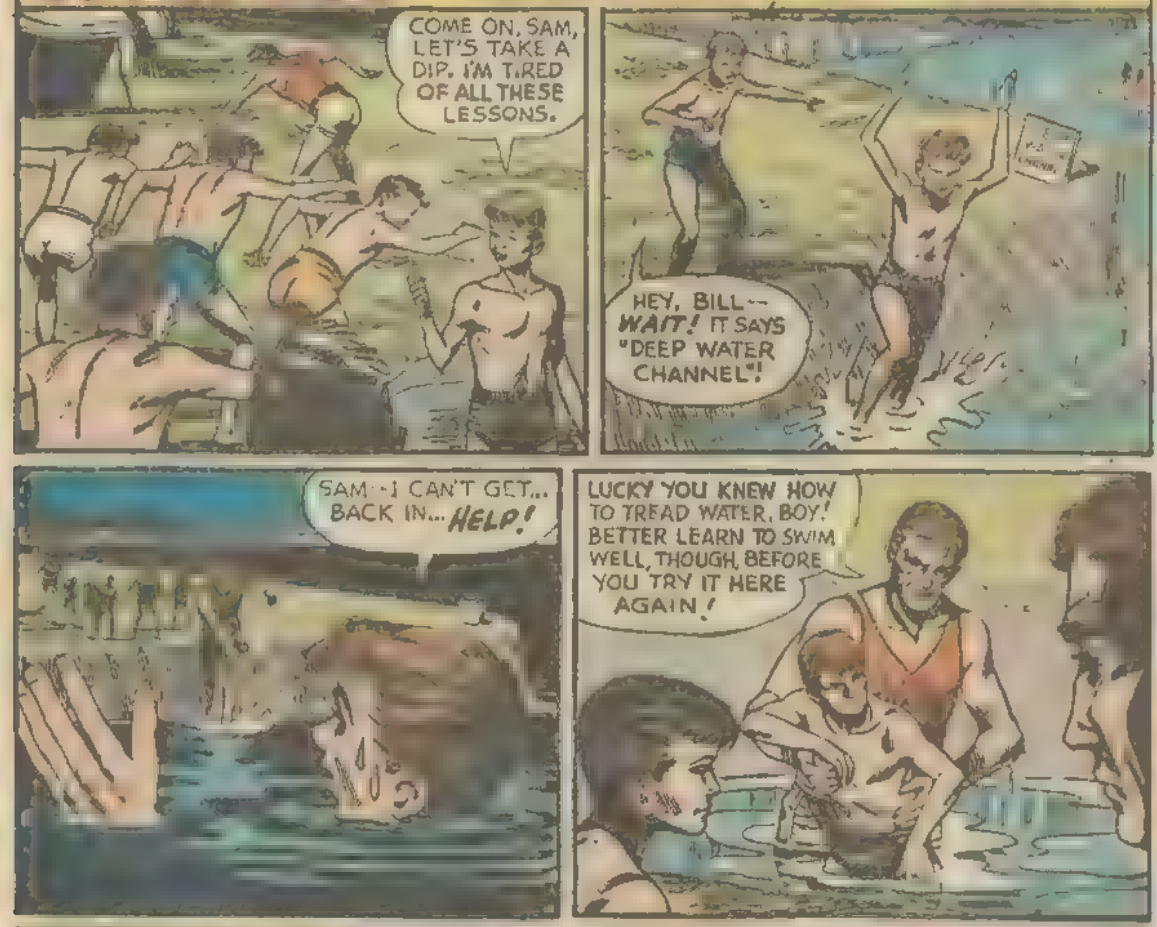

HEAR ME INVADERS. I WARN YOU AGAINST ANY FURTHER ATTACKS, FOR WE CAN MAKE LARGER COLD PELLETS--BIG ENOUGH TO FREEZE YOU SOLID! NOW GO BACK WHERE YOU CAME FROM!


AFTER THE LAST UNDERGROUND MAN HAS DISAPPEARED-
I APOLOGIZE, ADAM STRANGE! ONCE AGAIN YOU SAVED RANN AND RANAGAR--THIS TIME DESPITE MY OPPOSITION I AM WILLING TO BELIEVE NOW THAT YOU CANNOT APPEAR AND DISAPPEAR AT WILL!


EVEN AS XALTAN TOR SPEAKS--
HE'S FADING AWAY. YES--THERE'S NO DOUBT ABOUT HIS DISAPPEARING WHEN HE LEAST EXPECTS TO!
THE ZETA-BEAM HAS WORN OFF--AND ADAM IS RETURNING TO EARTH! SIGH! I'VE GOT TO WAIT ANOTHER 18 DAYS BEFORE I SEE HIM AGAIN!

ADAM STRANGE RETURNS IN ANOTHER EXCITING INTERPLANETARY ADVENTURE IN THE NEXT ISSUE OF MYSTERY IN SPACE!

WATER: A good friend or deadly enemy--DEPENDING ON YOU!


COME ON, SAM, LET'S TAKE A DIP. I'M TIRED OF ALL THESE LESSONS.
HEY, BILL-- WAIT! IT SAYS "DEEP WATER CHANNEL"!
SAM--I CAN'T GET... BACK IN... HELP!
LUCKY YOU KNEW HOW TO TREAD WATER, BOY! BETTER LEARN TO SWIM WELL, THOUGH, BEFORE YOU TRY IT HERE AGAIN!

FOR FUN AND SAFETY AT BEACH OR POOL

LEARN TO SWIM

- TAKE LESSONS AT YOUR "Y", BOYS' OR GIRLS' CLUB, CITY SWIMMING PROGRAM.
- ASK YOUR SWIMMING TEACHER, RECREATION LEADER OR LIBRARIAN TO SUGGEST A BOOK OR PAMPHLET THAT WILL TELL YOU MORE ABOUT SWIMMING.
- PRACTICE KICKING AND ARM STROKES AT HOME.

FOLLOW WATER SAFETY RULES:

- ALWAYS SWIM WITH SOMEONE.
- SWIM AT A SAFE PLACE WITH A LIFEGUARD.
- TEST YOUR SWIMMING ABILITY BEFORE GOING INTO DEEP WATER.
- OBSERVE AND OBEY WARNING SIGNS, RULES.
- DON'T SWIM WHEN TIRED OR OVERHEATED.
- FACE TOWARD SHORE WHEN PRACTICING.
- DON'T CALL FOR HELP AS A JOKE.

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plus 25c postage)

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FRONTIER CABIN Room 8106 No C.O.D.'s
1472 Broadway N.Y. 36 N.Y.

Enclosed herewith is $ [illegible] for [illegible] Frontier Cabins. Please Rush.

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Address _____

City _____ Zone _____ State _____

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NOW ONLY 50¢

Postpaid. Limit 2 to a customer.

SEE UP TO 18 MILES

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BRUCE SALES CO., Dept. HB
Carle Place, L.I., N.Y.
Please send me Hi-Power Binoculars.
☐ 1 for 50¢ ☐ 2 for $1.00.
Limit 2 to a customer.
I enclose: ☐ Cash ☐ Check ☐ Money Order
Sorry, No C.O.D.'s.
NAME _____
ADDRESS _____
CITY _____ ZONE _____ STATE _____

AMAZING ATTACK IN SPACE!

WITH THE EXCEPTION OF RUMORED FLYING SAUCERS, NO SHIP FROM OUTER SPACE HAS YET [illegible] EARTH! BUT WHEN THE FIRST SPACESHIP [illegible] THROUGH THE SOLAR SYSTEM, [illegible] IT [illegible] NATION IN THE [illegible] APPEARANCES [illegible] EXTINCTION FOR THE [illegible] OF EARTH!

SOMEWHERE AMONG THE 10 BILLION SLEEPING ALIENS IN THIS GIGANTIC SPACESHIP IS THE ONE WHO CAN TELL US HOW TO SAVE EARTH FROM DISASTER!

BUT HOW WILL WE SINGLE HIM OUT?

IN THE 21ST CENTURY EARTH SPACEMEN HAVE REACHED THE OUTERMOST LIMITS OF THE SOLAR SYSTEM!

OUR NEXT TARGET--A TENTH PLANET BEYOND PLUTO, PERHAPS TOO FAINT FOR EVEN TELESCOPES TO SEE!

URANUS 2016
NEPTUNE 2021
MARS 2000
MERCURY
EARTH
SATURN 2013
VENUS 1997
JUPITER 2009
PLUTO 2025

AND EXPLORING BEYOND PLUTO'S ORBIT FOR THE FIRST TIME, VAL HART AND STAN JACKSON ARE THRILLED WHEN...

VAL! RADAR BLIP... SIX BILLION MILES FROM THE SUN! SIZE OF OBJECT... 1000 MILES! IF IT'S PLANET X, IT'LL BE THE SMALLEST-

-LOOK--IT'S APPROACHING US TOO FAST! IT CAN'T BE ORBITING THE SUN!

THEIR DISCOVERY IS EVEN MORE AMAZING THAN AT FIRST GLANCE!

GREAT SCOTT! THAT'S NO PLANET--BUT A GIANT SPACE SHIP 1000 MILES LONG COMING FROM OUTER SPACE INTO THE SOLAR SYSTEM! WE BETTER FIND OUT WHAT IT'S DOING HERE!

AFTER TRYING CONTACT BY RADIO-TELEPATHY..

NO ANSWER! THE GIANT SHIP ISN'T DEVIATING OR SLACKENING SPEED! IT'S PASSING PLUTO'S ORBIT AND IS GOING TO CUT STRAIGHT ACROSS THE SOLAR SYSTEM! LET'S RADIO EARTH ABOUT THIS MYSTERY SHIP!

AND WHEN EARTH'S REPLY COMES 12 HOURS LATER...

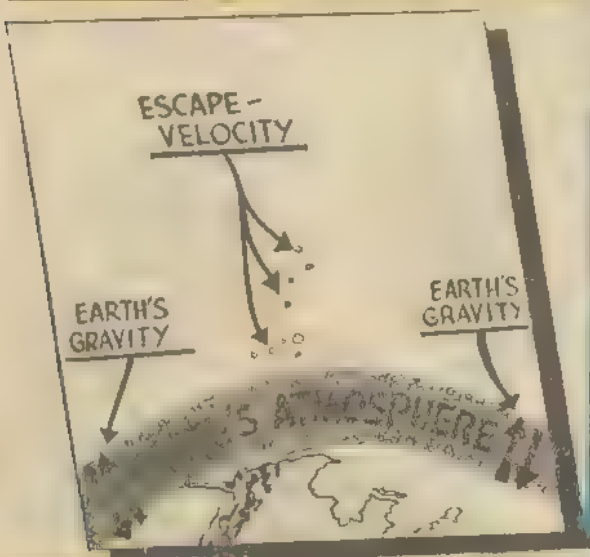
MESSAGE RECEIVED.. DISCOVERY OF GIANT MYSTERY SHIP UNIMPORTANT COMPARED TO OUR DISCOVERY! EARTH IS A DYING PLANET!

ONLY DAYS TO LIVE! WHAT HAPPENED TO THREATEN EARTH WHILE WE WERE GONE?

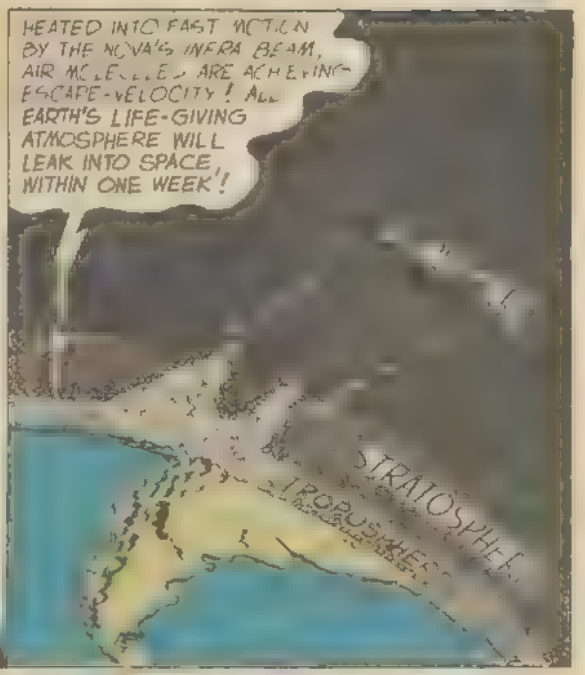
EXPLAINING EARTH'S DOOM INTENSE ATOM-RAYS, FROM EXPLODING NOVA IN OUTER SPACE HAVE STRUCK OUR PLANET LIKE A HEAT-BEAM!

*Editor's Note: EVEN AT THE SPEED OF LIGHT (186,000 MILES A SECOND), IT TAKES RADIO WAVES 6 HOURS TO CROSS SPACE ONE WAY BETWEEN PLUTO AND THE EARTH!

"AS YOU KNOW, AN OBJECT--WHETHER A SPACESHIP OR A METEORITE--CAN WIN FREE OF EARTH'S GRAVITY WHEN IT REACHES ESCAPE VELOCITY, 24,000 MILES PER HOUR!"



HEATED INTO FAST MOTION BY THE NOVA'S INFRA BEAM, AIR MOLECULES ARE ACHIEVING ESCAPE-VELOCITY! ALL EARTH'S LIFE-GIVING ATMOSPHERE WILL LEAK INTO SPACE WITHIN ONE WEEK!



AS THE [illegible] FROM [illegible]

AND SCIENTISTS CAN'T STOP THAT INFRA BEAM ANY MORE THAN THEY CAN STOP COSMIC RAYS!

WE—WE CAN RETURN TO EARTH AND MATCH IT OR—OR WE CAN OCCUPY OUR MINDS BY SOLVING THE MYSTERY OF THAT GIANT SHIP! WHICH SHALL IT BE?

DECIDING ON THE LATTER COURSE, THE EARTHMEN FLY THROUGH A HUGE WINDOW OF THE ALIEN SHIP...

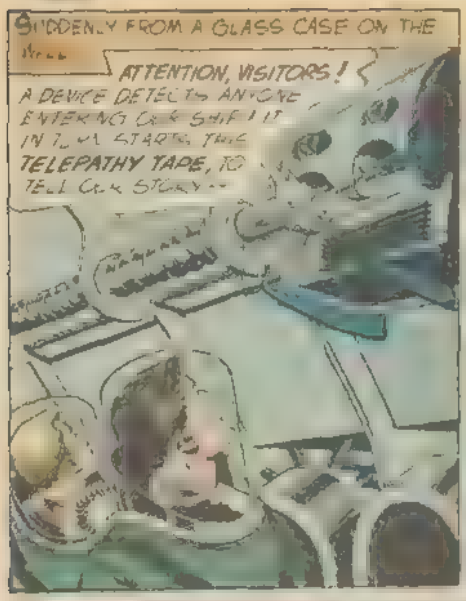
NO GLASS IN THE WINDOWS! WHY WOULD ANYONE HAVE AN UNSEALED, AIRLESS SHIP EXPOSED TO SPACE COLDNESS? HOW CAN THE CREW OR PASSENGERS REMAIN ALIVE?

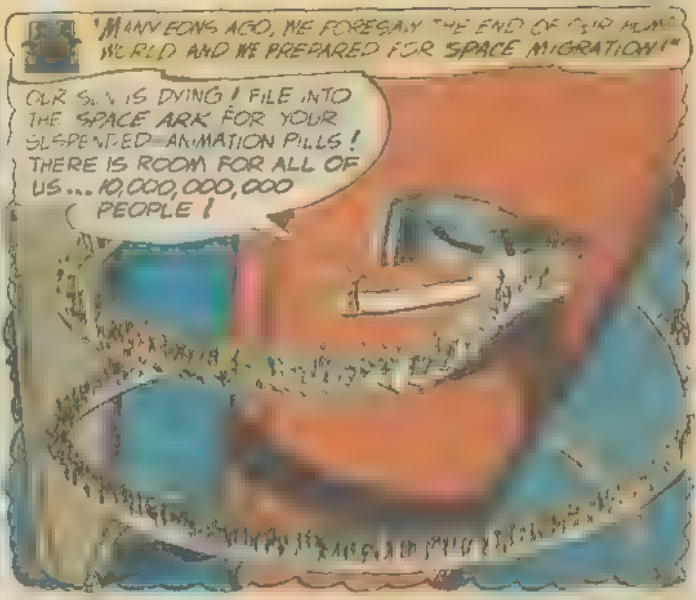
WITHIN, THE START[illegible] ANSWERLESS BEFORE THEIR EYES!

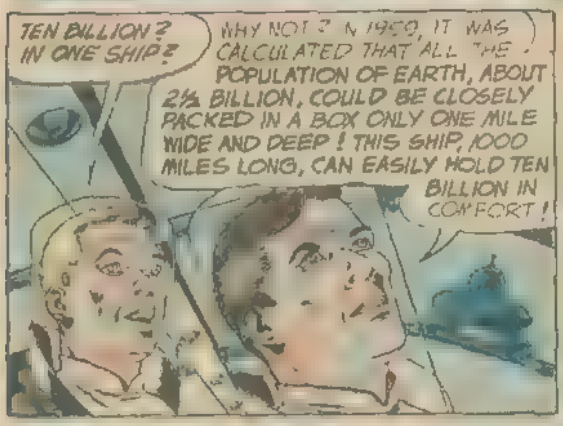
THEY'RE ALL IN SUSPENDED ANIMATION!

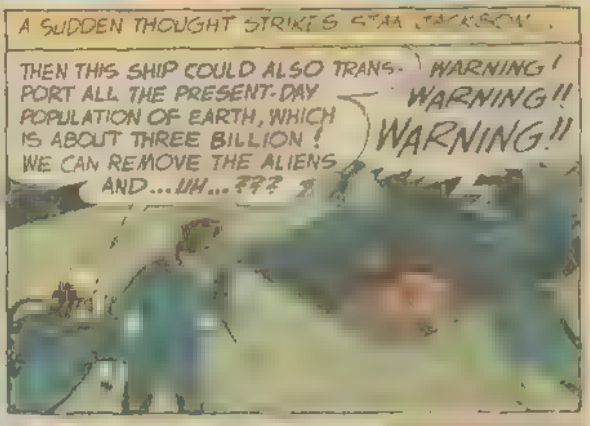
THAT MEANS THEY'RE MAKING A TRIP LASTING MORE THAN A LIFETIME!

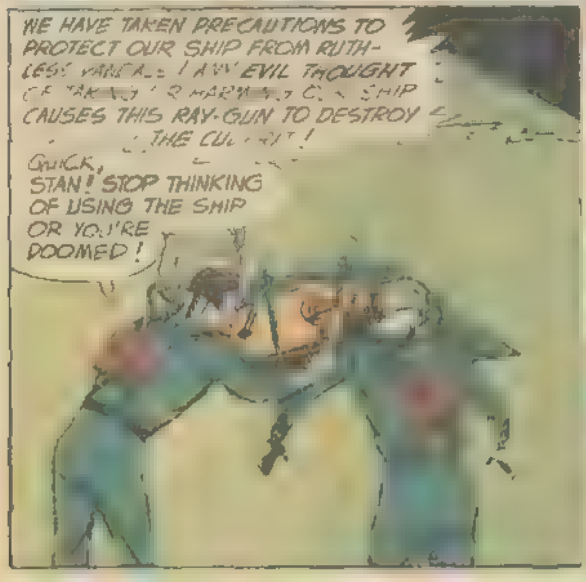
BUT WHERE DID THEY COME FROM? WHERE ARE THEY GOING?

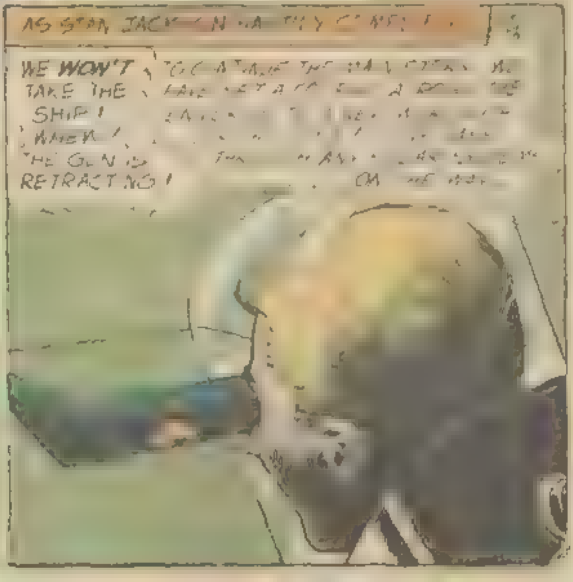

SUDDENLY FROM A GLASS CASE ON THE WALL
ATTENTION, VISITORS! A DEVICE DETECTS ANYONE ENTERING OUR SHIP! IT IN TURN STARTS THIS TELEPATHY TAPE, TO TELL OUR STORY--


"MANY EONS AGO, WE FORESAW THE END OF OUR HOME WORLD AND WE PREPARED FOR SPACE MIGRATION!"
OUR SUN IS DYING! FILE INTO THE SPACE ARK FOR YOUR SUSPENDED-ANIMATION PILLS! THERE IS ROOM FOR ALL OF US... 10,000,000,000 PEOPLE!

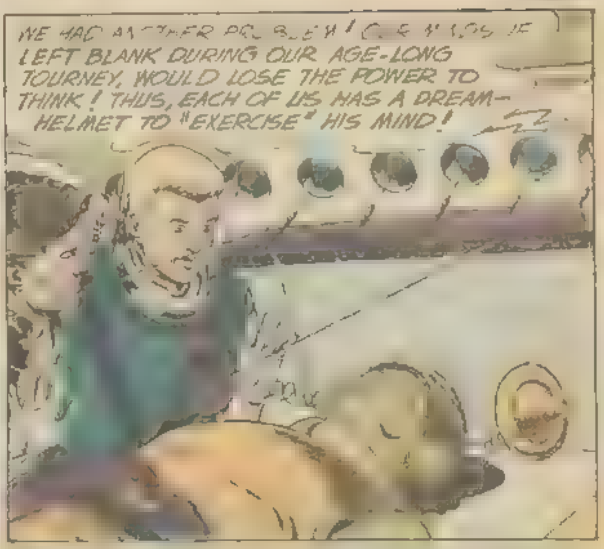

TEN BILLION? IN ONE SHIP?
WHY NOT? IN 1950, IT WAS CALCULATED THAT ALL THE POPULATION OF EARTH, ABOUT 2½ BILLION, COULD BE CLOSELY PACKED IN A BOX ONLY ONE MILE WIDE AND DEEP! THIS SHIP, 1000 MILES LONG, CAN EASILY HOLD TEN BILLION IN COMFORT!

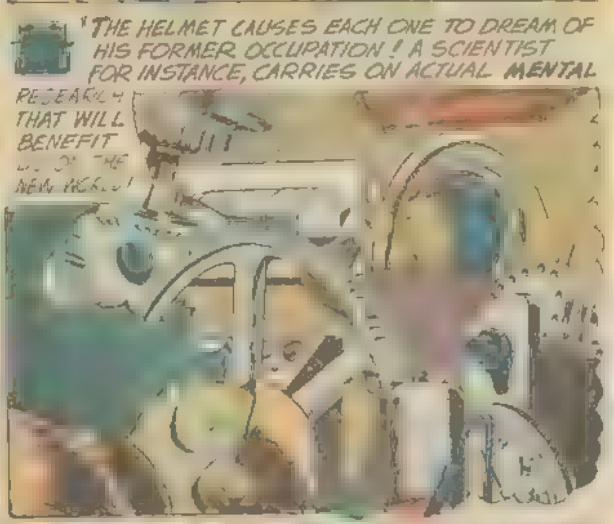

A SUDDEN THOUGHT STRIKES STAN JACKSON.
THEN THIS SHIP COULD ALSO TRANSPORT ALL THE PRESENT-DAY POPULATION OF EARTH, WHICH IS ABOUT THREE BILLION! WE CAN REMOVE THE ALIENS AND... UH... ???
WARNING! WARNING!! WARNING!!


WE HAVE TAKEN PRECAUTIONS TO PROTECT OUR SHIP FROM RUTHLESS VANDALS! ANY EVIL THOUGHT OF TAKING OUR MARVELOUS SHIP CAUSES THIS RAY-GUN TO DESTROY THE CULPRIT!
QUICK, STAN! STOP THINKING OF USING THE SHIP OR YOU'RE DOOMED!

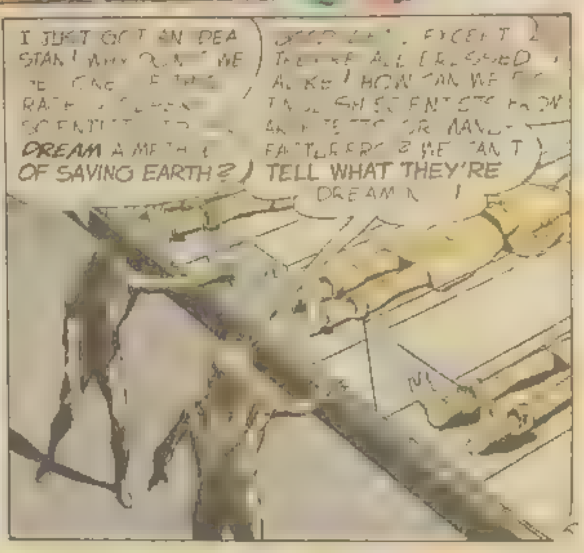

AS STAN JACKSON NASTILY GRINS!
WE WON'T TAKE THE SHIP! WHEW! THE GUN IS RETRACTING!

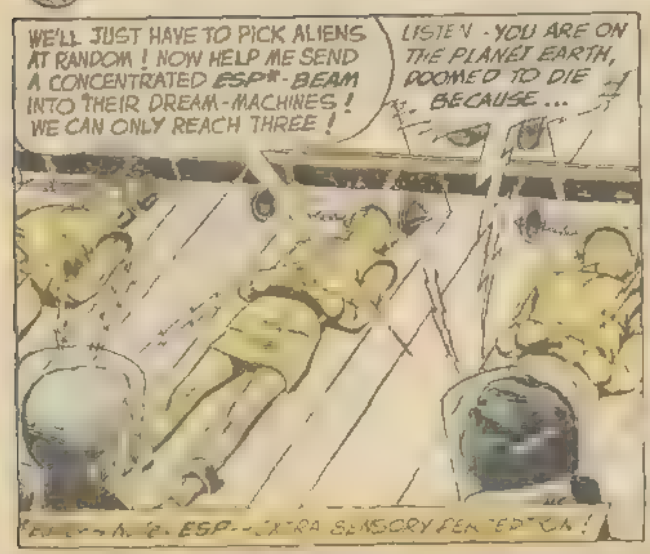
...WE WILL NOT COLLIDE WITH ANY PLANETS OR MOONS! AN AUTOMATIC PILOT WILL STEER US AROUND ANY OBSTRUCTION!
THE ALIEN SHIP JUST CIRCLED PAST JUPITER! THE SHIP IS BIG ENOUGH TO SMASH MOONS TO BITS, IF IT EVER HIT THEM!

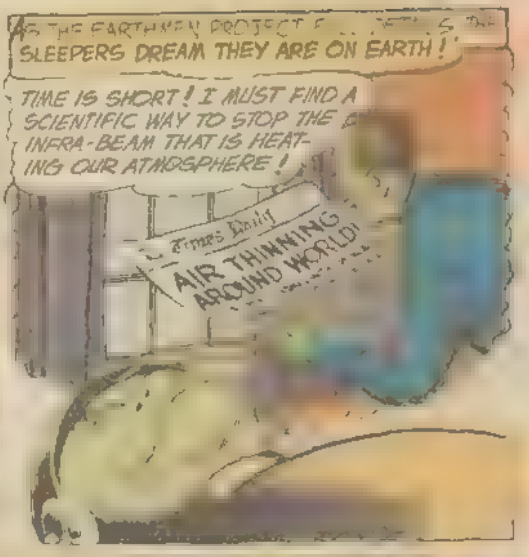

WE HAD ANOTHER PROBLEM! OUR MINDS IF LEFT BLANK DURING OUR AGE-LONG JOURNEY, WOULD LOSE THE POWER TO THINK! THUS, EACH OF US HAS A DREAM-HELMET TO "EXERCISE" HIS MIND!


THE HELMET CAUSES EACH ONE TO DREAM OF HIS FORMER OCCUPATION! A SCIENTIST FOR INSTANCE, CARRIES ON ACTUAL MENTAL RESEARCH THAT WILL BENEFIT

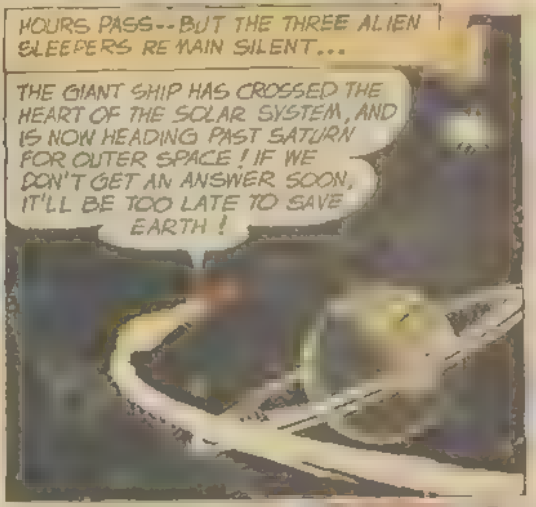
...THUS ENDS OUR STORY OF HOW WE ESCAPED THE DOOM TO OUR HOME WORLD!
BUT EARTH CAN'T ESCAPE ITS DOOM, PAL! THE INFRA-RAY IS STILL BOILING OUR ATMOSPHERE AWAY!

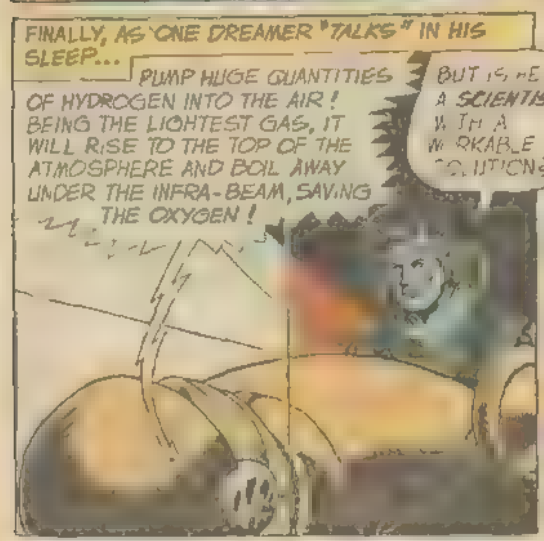

I JUST GOT AN IDEA STAN! WHY DON'T WE DREAM A METHOD OF SAVING EARTH?
TELL WHAT THEY'RE

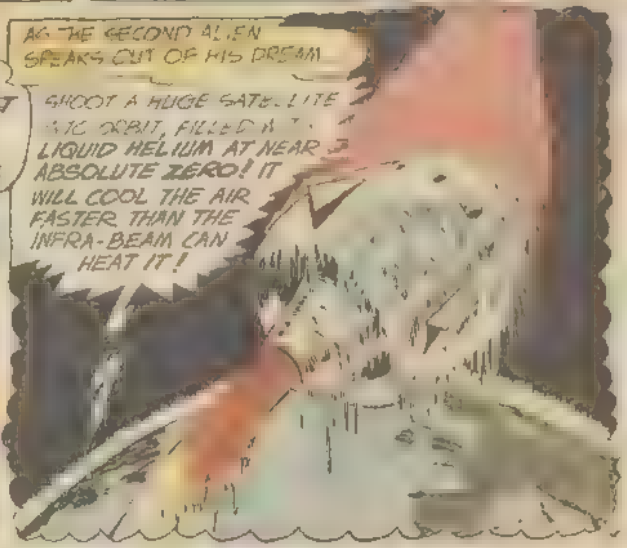

WE'LL JUST HAVE TO PICK ALIENS AT RANDOM ! NOW HELP ME SEND A CONCENTRATED ESP*-BEAM INTO THEIR DREAM-MACHINES ! WE CAN ONLY REACH THREE !
LISTEN - YOU ARE ON THE PLANET EARTH, DOOMED TO DIE BECAUSE ...
*E.S.P. - EXTRA SENSORY PERCEPTION !


AS THE EARTHMEN PROJECT [illegible] THE SLEEPERS DREAM THEY ARE ON EARTH !
TIME IS SHORT ! I MUST FIND A SCIENTIFIC WAY TO STOP THE [illegible] INFRA-BEAM THAT IS HEATING OUR ATMOSPHERE !
Times Daily
AIR THINNING AROUND WORLD!

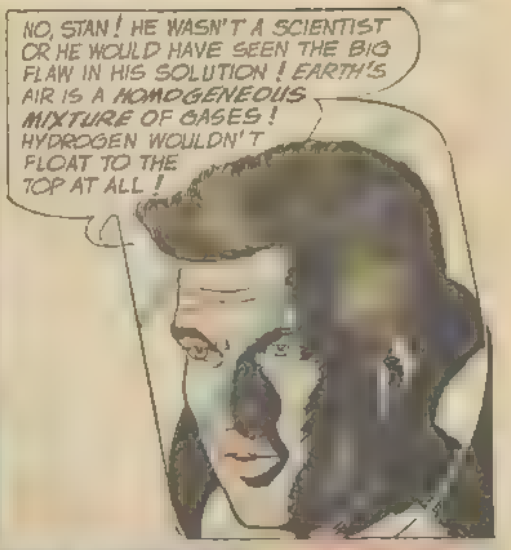
KEEP REPEATING IT OVER AND OVER AGAIN, STAN .. WITH THIS ADDED MENTAL COMMAND!...
WHEN YOU DREAM OF A SOLUTION, YOU WILL COMMUNICATE YOUR THOUGHTS TO US BY TELEPATHY !

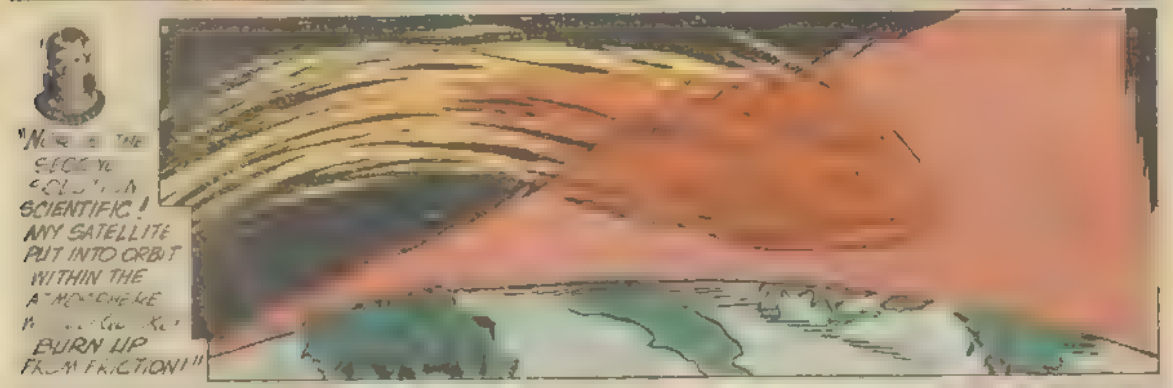

HOURS PASS -- BUT THE THREE ALIEN SLEEPERS REMAIN SILENT...
THE GIANT SHIP HAS CROSSED THE HEART OF THE SOLAR SYSTEM, AND IS NOW HEADING PAST SATURN FOR OUTER SPACE ! IF WE DON'T GET AN ANSWER SOON, IT'LL BE TOO LATE TO SAVE EARTH !

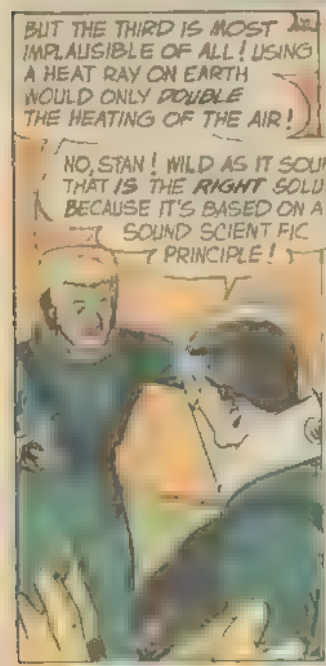

FINALLY, AS ONE DREAMER "TALKS" IN HIS SLEEP...
PUMP HUGE QUANTITIES OF HYDROGEN INTO THE AIR ! BEING THE LIGHTEST GAS, IT WILL RISE TO THE TOP OF THE ATMOSPHERE AND BOIL AWAY UNDER THE INFRA-BEAM, SAVING THE OXYGEN !
BUT IS HE A SCIENTIST WITH A WORKABLE SOLUTION?

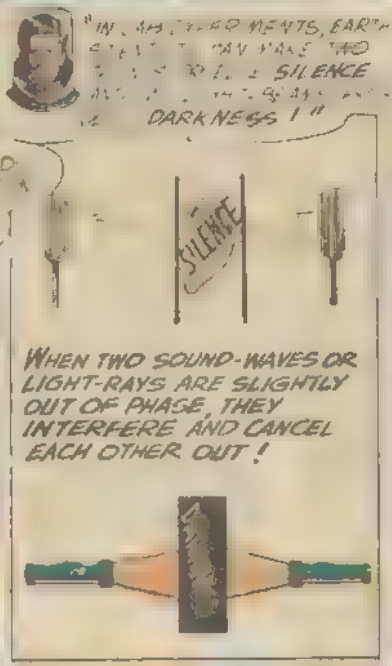

AS THE SECOND ALIEN SPEAKS OUT OF HIS DREAM
SHOOT A HUGE SATELLITE INTO ORBIT, FILLED WITH LIQUID HELIUM AT NEAR ABSOLUTE ZERO! IT WILL COOL THE AIR FASTER THAN THE INFRA-BEAM CAN HEAT IT !

AND THE THIRD...
BUILD A GIANT HEAT-RAY LAMP AND AIM IT TO MEET THE INFRA-BEAM FROM SPACE!
RIDICULOUS! HE'S NO SCIENTIST, FOR SURE! THE FIRST ONE SOUNDS BEST, VAL!


NO, STAN! HE WASN'T A SCIENTIST OR HE WOULD HAVE SEEN THE BIG FLAW IN HIS SOLUTION! EARTH'S AIR IS A HOMOGENEOUS MIXTURE OF GASES! HYDROGEN WOULDN'T FLOAT TO THE TOP AT ALL!


"NOW IS THE SECRET OF SOLUTION SCIENTIFIC! ANY SATELLITE PUT INTO ORBIT WITHIN THE ATMOSPHERE [illegible] BURN UP FROM FRICTION!"


BUT THE THIRD IS MOST IMPLAUSIBLE OF ALL! USING A HEAT RAY ON EARTH WOULD ONLY DOUBLE THE HEATING OF THE AIR!
NO, STAN! WILD AS IT SOUND THAT IS THE RIGHT SOLU BECAUSE IT'S BASED ON A SOUND SCIENTIFIC PRINCIPLE!


"IN ... SILENCE ... DARKNESS!"
SILENCE
WHEN TWO SOUND-WAVES OR LIGHT-RAYS ARE SLIGHTLY OUT OF PHASE, THEY INTERFERE AND CANCEL EACH OTHER OUT!

IT'LL WORK WITH INFRA-RED RAYS TOO, WHICH ARE IN THE SAME ELECTROMAGNETIC SPECTRUM AS LIGHT-RAYS! BUT WILL OUR RADIO-MESSAGE, TAKING SIX HOURS FROM THIS SPOT IN SPACE, BE IN TIME?
CALLING EARTH...

ON EARTH, SIX HOURS LATER...
CAN YOU BUILD THE INFRA-RED LAMP IN TIME?
YES! EARTH'S AIR PRESSURE IS STILL ABOVE THE DANGER-LINE AND WILL BE BREATHABLE FOR 24 HOURS! WE'LL ORGANIZE THE FASTEST CONSTRUCTION JOB IN HISTORY!
21ST CENTURY AUTOMATION PRODUCES THE GIANT LAMP WITHIN THE FATAL DEADLINE!
POWER...TEN THERMO-NUCLEAR POWERPLANTS! RANGE...60 MILES TO TOP OF STRATOSPHERE!.. THERE IT GOES TO MEET THE INFRA-BEAM FROM SPACE! WILL IT WORK?
YES...LOOK! THAT'S FIGHTING FIRE WITH FIRE...TO PRODUCE INTENSE COLD! EARTH'S AIR WILL STOP "BOILING" AND LEAKING OFF INTO SPACE!
AFTER VAL HART AND STAN JACKSON HEAR THE GOOD NEWS...
THERE GOES THE GIANT SHIP ON TO ITS UNKNOWN DEST NAT ON ACROSS THE UNIVERSE! THE ALIEN SLEEPERS WILL NEVER KNOW HOW THEY HELPED SAVE THE EARTH!

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Rush me my SLING-A-SHOT. I enclose $.89 plus $.11 for postage and handling in cash, check or money order. No C.O.D. please.

Name .....

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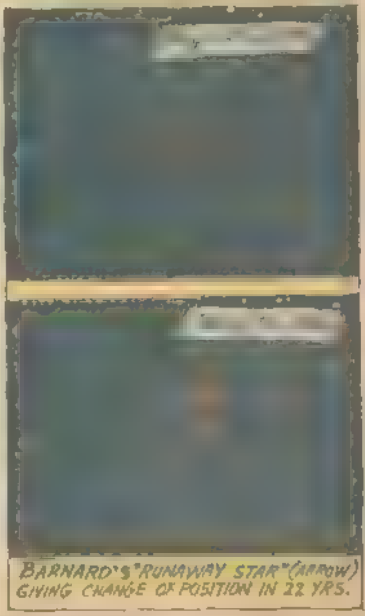
GIANTS OF THE TELESCOPE

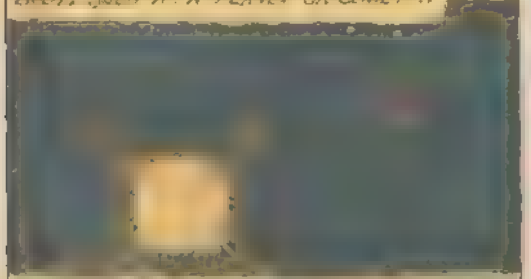
GIUSEPPE PIAZZI (1746-1826)

GIUSEPPE PIAZZI, AN ITALIAN MONK, WAS COMMISSIONED BY THE GOVERNMENT TO SUPERVISE THE BUILDING OF TWO ASTRONOMICAL OBSERVATORIES AT NAPLES AND PALERMO. AT PALERMO, FATHER PIAZZI DEVOTED 20 YEARS TO MAKING AN ACCURATE DETERMINATION OF 7646 FIXED STARS -- FOR WHICH MONUMENTAL WORK HE WAS AWARDED A PRIZE BY THE INSTITUTE OF FRANCE...

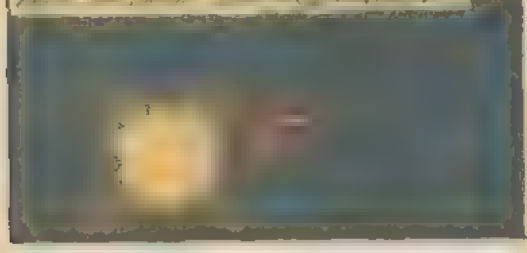


BARNARD'S "RUNAWAY STAR" (ARROW) GIVING CHANGE OF POSITION IN 22 YRS.

PIAZZI DISCOVERED A VERY EXACT METHOD FOR MAPPING THE SKY BY DETERMINING THE RELATIVE POSITIONS OF STARS WITHIN A GIVEN AREA ON A NUMBER OF OCCASIONS. IF ANY "FIXED STAR" MOVED IN RELATION TO ITS NEIGHBORS, IT WAS OBVIOUSLY NOT A STAR AT ALL, BUT SOME OTHER KIND OF HEAVENLY BODY, SUCH AS A PLANET OR COMET ..



NOW PLOTTED BY COMPARISON WITH PHOTOGRAPHS OF THE SAME AREA TAKEN AT SUBSEQUENT INTERVALS



ON NEW YEAR'S DAY, 801, THE ASTRONOMER'S WORK DISCOVERED A STRANGELY MOVING STAR WHICH HE SUSPECTED WAS A "WANDERING STAR" PLANET OR A COMET. IT WAS LATER PROVED TO BE THE FIRST DISCOVERED ASTEROID -- CERES -- NAMED IN HONOR OF THE ROMAN GODDESS OF AGRICULTURE

SIZE OF CERES COMPARED TO STATES OF CALIFORNIA AND NEVADA

WONDERS of SPACE

Dear Science Editor,

What are the factors that determine the various types of orbits a missile can take after being fired off the Earth?

Dear K.R.,

The type of path that will be taken up by an unpowered space vehicle starting at a given location on Earth will depend upon its velocity. It will take an open-ended path if its velocity equals or exceeds escape velocity. Escape velocity is, by definition, that velocity required at a given location to establish a parabolic orbit. Velocities greater than escape velocity result in hyperbolic orbits. Lower velocities result in closed elliptical orbits—the vehicle is tied to the Earth.

The exact value of escape velocity depends upon two factors: the mass of the parent planet and the distance from the center of the planet to the space vehicle. Escape velocity increases as the square root of the planet's mass, and decreases as the square root of the distance from the planet's center. The speeds required for escape directly from the surfaces of various solar system bodies are listed below (bear in mind that these escape velocity requirements are a measure of the difficulty of departure from these bodies):

Mercury	13,600 ft/sec
Venus	33,600 ft/sec
Earth	36,700 ft/sec
Earth's moon	7,800 ft/sec
Asteroid Eros	50 ft/sec
Mars	16,700 ft/sec
Jupiter	197,000 ft/sec

As you see, the projection speed required to escape directly from the Earth's surface is about 36,700 feet per second. If a vehicle takes up unpowered flight (end of rocket propulsion) at an altitude of, say, 300 miles, it requires the somewhat lesser speed of 35,400 feet per second to escape into interplanetary space. This reduction in required velocity has, of course, been obtained at the expense of the energy expended in lifting the vehicle to an altitude of 300 miles.

The elliptical orbits generated by velocities below escape velocity are the type followed by artificial satellites, as well as by all the planets and moons of the solar system.

Science Editor

• • •

Dear Science Editor,

Why is the expression "rings of Saturn" used? Is there more than one ring around the planet?

A.A.,
San Diego, Cal.

Dear A.A.,

Saturn possesses three rings—possibly a fourth, which has been reported on occasion, but has not as yet been confirmed.

The outermost ring—dubbed Ring A—is separated from the middle ring (Ring B) by a gap called Cassini's Division, named in honor of its discoverer, G.D. Cassini. Ring B is considerably brighter than Ring A, while the innermost ring is much duskier. The closest ring to Saturn is known both as Ring A and the Crepe Ring. The latter name was suggested by astronomer Lassel who remarked when seeing the ring that it was "something like a crepe veil covering a part of the sky within the inner ring."

Dimensionally speaking, Ring A is about 10,000 miles wide, Ring B about 16,500 miles, and Ring C about 10,000 miles. Cassini's Division is nearly 1800 miles in width. The extraordinary thing about the rings is their extreme thinness. It is certainly less than 50 miles, probably no more than 10.

Science Editor

RIDDLE of the COUNTERFEIT EARTHMEN!

ON EARTH, SCIENTISTS HAVE OFTEN CONJECTURED WHAT STRANGE [illegible] ! BUT WHAT WOULD THOSE OTHER WORLDS, IN [illegible] TITAN, THE LARGEST SATELLITE OF THE PLANET SATURN!

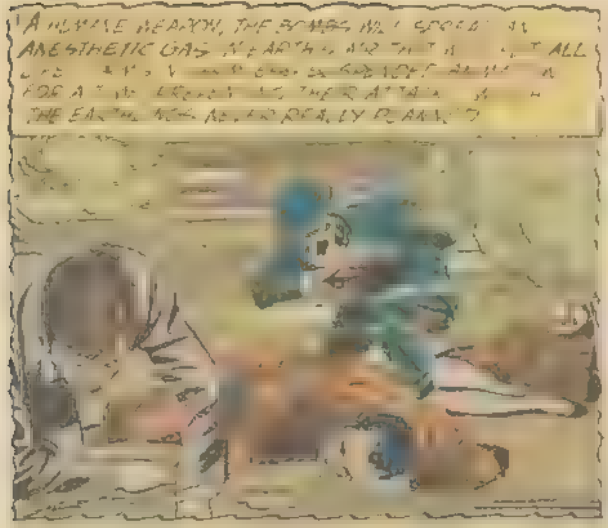
FROM OUR SCIENTIFIC STUDIES OF CONDITIONS ON EARTH, WE HAVE DEDUCED WHAT EARTHMEN MUST LOOK LIKE! YOU CREATURES ARE OBVIOUSLY IMPOSTORS! WHAT WORLD DID YOU REALLY COME FROM?

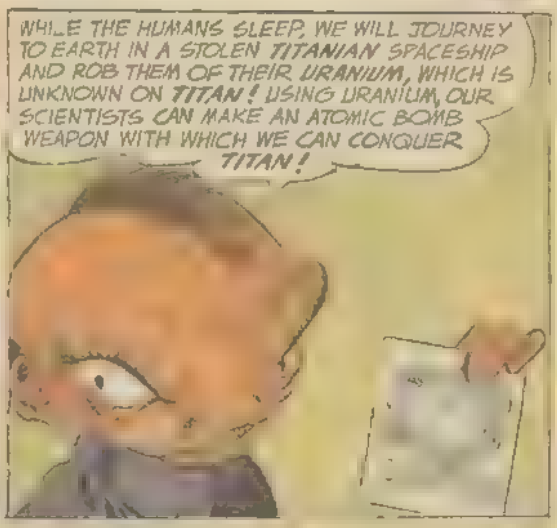
IN 1988, A PIONEERING EARTH SPACESHIP PENETRATES 800 MILLION MILES INTO OUTER SPACE--THE FIRST TO REACH THE RINGED WONDER PLANET SATURN...
SATURN'S ATMOSPHERE OF METHANE-AMMONIA MEANS THERE CAN BE NO LIFE ON THE PLANET! BUT TESTS INDICATE THAT TITAN, ITS LARGEST SATELLITE, HAS GOOD AIR, EVEN IF TOO THIN FOR US TO BREATHE! WE'LL LAND THERE!
HAL BURTON AND HIS CO-PILOT, GIL HARDY, DISCOVER A FLOURISHING CIVILIZATION ON TITAN...AND AS THEY LAND AT THE LARGEST CITY'S AIRPORT
WELCOME, SPACE-VISITORS! WE OBSERVED THE COMING OF YOUR SHIP!
KU-LI-IX, CHIEF SPACE SCIENTIST! PLEASE FOLLOW ME TO MY LABORATORY!
OUR WALKIE-THOUGHTIES WILL RADIATE OUR TELE-PATHIC THOUGHTS TO THE TITANIANS!
GREETINGS! WE HAVE COME IN PEACE!
WE ARE IN THE FIRST STAGES OF SPACE-TRAVEL! SO FAR WE HAVE VISITED ONLY THE MOONS OF OUR MOTHER-PLANET! WHAT PLANET ARE YOU FROM?
FROM EARTH, THIRD PLANET FROM THE SUN!
THERE IS AN AMAZING REACTION FROM THE TITANIANS!
THIS PLANET? WHY, THAT IS IMPOSSIBLE! YOU CAN'T BE EARTHMEN!
H-HOW CAN YOU SAY THAT?! YOU'VE NEVER SEEN AN EARTH-MAN BEFORE!
THAT IS TRUE--BUT OUR SCIENTISTS HAVE PICTURED WHAT EARTHMEN WOULD BE LIKE AFTER STUDYING LONG-RANGE DATA ABOUT EARTHLY CONDITIONS! FOR INSTANCE...
KO-IK-UX, [illegible] THAT...
BEING LARGER THAN TITAN, EARTH HAS THREE TIMES [illegible] TO WITHSTAND THAT GREAT STRAIN, EARTHMEN MUST BE THREE TIMES AS BIG AND POWERFUL AS WE TITANIANS!

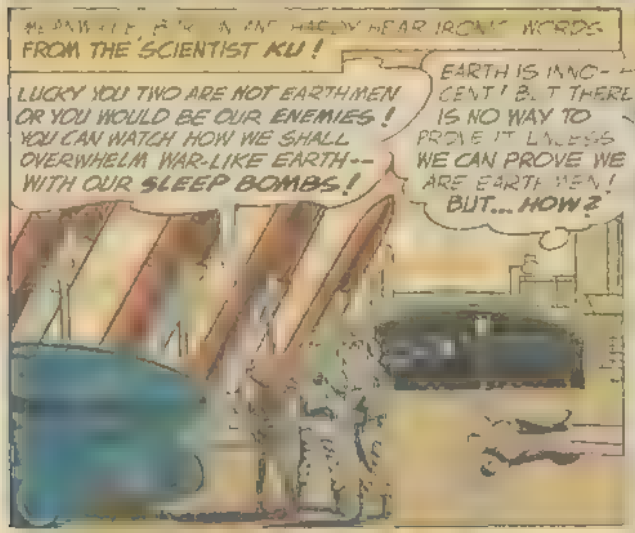
OUR AUTHORITY ON RADIATIONS POINTED OUT THAT.
EARTH IS SO CLOSE TO THE SUN THAT THE INTENSE GLARE OF SUNLIGHT WOULD BLIND EYES LIKE OURS! OBVIOUSLY, THE EARTHMEN MUST HAVE AN INNER RADAR EYE WITH WHICH TO SEE!
"THE NEARNESS OF EARTH TO THE SUN BROUGHT UP ANOTHER POINT, BRILLIANTLY ANALYZED BY IJ-KO-LIN..."
EARTH IS SO HOT THAT ICE EXISTS AS MELTED WATER THERE! EARTHMEN WOULD BE BURNED TO A CRISP WITHOUT A PROTECTIVE OUTER SKIN OF THICK HORNY PLATES, LIKE THIS!
AND THUS BY SIMPLE LOGIC, WE HAVE ARRIVED AT THIS COMPOSITE PICTURE OF WHAT EARTHMEN ARE LIKE!
NONSENSE! YOUR LOGIC IS ALL WET--THAT'S FALLACIOUS--AS YOU CAN SEE BY LOOKING AT US!
SEEING IS NOT BELIEVING! HERE'S ANOTHER PROOF! YOUR TANKS HOLD FLAMMABLE OXYGEN! BUT SINCE EARTHMEN ARE 78% NITROGEN, EARTHMEN WOULD SURELY BREATHE THAT GAS! WHY ARE YOU LYING? WHAT WORLD DID YOU REALLY COME FROM?
I TELL YOU WE'RE GENUINE EARTHMEN! NO SUCH CREATURE AS YOU DEPICTED EXISTS, EXCEPT IN YOUR IMAGINATION AND...

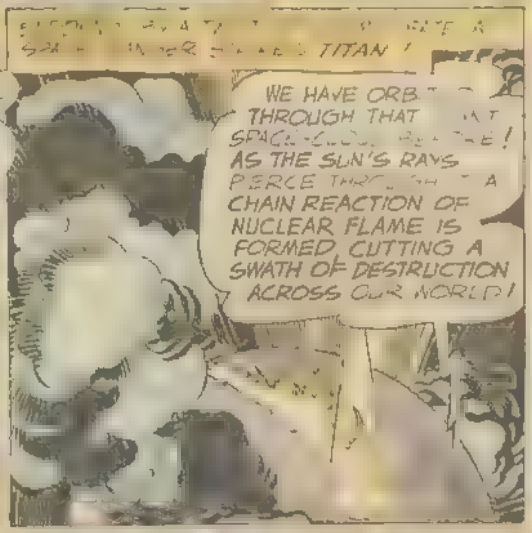
OUTSIDE THE LABORATORY..
WE JUST LANDED IN OUR SPACESHIP! WE ARE FROM...
NO NEED TO TELL US! FROM EARTH, OBVIOUSLY! YOU ARE REAL EARTHMEN! THAT PROVES THESE OTHERS WERE FALSELY CLAIMING TO BE EARTHMEN!
WHAT?! DO THESE ALIENS LAY TO KNOW EARTH?
IF YOU ARE FROM EARTH ..LET'S SEE YOU PROVE IT!
CERTAINLY! WE HAVE A SAMPLE OF METAL IN OUR CASE OF LEAD, WHICH IS ATOMIC NUMBER 82!
OOF! IT'S HEAVY! I'VE NEVER MET ANYTHING THAT HEAVY BEFORE, TITAN!
TITAN!
HYDROGEN 1
ALUMINUM 13
IRON 26
SILVER 47
TIN 50
GOLD 79
LEAD 82
URANIUM 92
"THIS IS IN ACCORDANCE WITH OUR THEORY ABOUT THE CREATION OF THE SOLAR SYSTEM! THE OUTER PLANETS, COMPOSED OF LIGHT ELEMENTS, ARE FLUNG FURTHER FROM THE SUN THAN THE INNER PLANETS WITH HEAVY ELEMENTS!"
MARS
PLUTO
NEPTUNE
SATURN

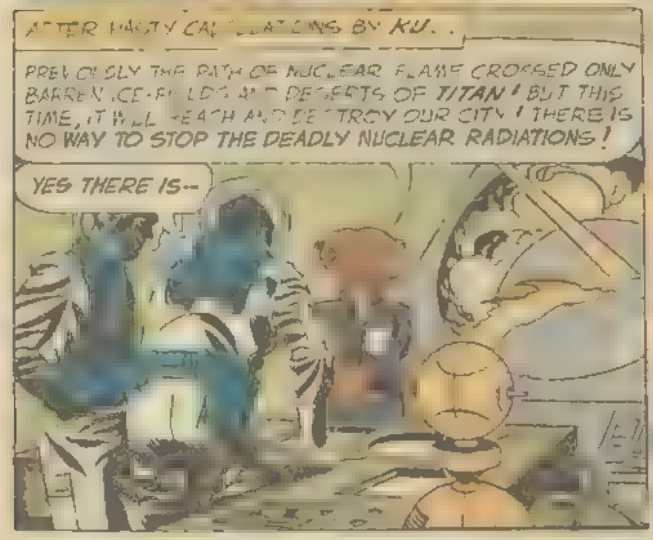
WE HAVE LEAD ABOARD OUR SHIP BUT WHAT GOOD WOULD IT DO TO SHOW IT? THE TITANIANS WILL STILL BELIEVE IN THOSE PHONIES BECAUSE THEY RESEMBLE THAT FALSE CONCEPT OF EARTHMEN!
WHO ARE THESE GIANTS? WHAT GAME ARE THEY UPTO MASQUERADING AS EARTHMEN?
NEXT SURPRISING WORDS COME FROM THE BOGUS EARTHMEN"!
NOW THAT YOU KNOW WE ARE TRUE EARTHMEN, WE WILL DELIVER OUR ULTIMATUM! A HUGE SPACE-WARFLEET ARMED WITH GUIDED WEAPONS WILL ATTACK FROM EARTH AND WIPE YOU OUT... UNLESS YOU SURRENDER!
WE WILL GIVE YOU ONE EARTH DAY OF 24 HOURS TO CONSIDER YOUR DECISION! WE WILL WAIT FOR IT IN OUR SHIP!
THIS IS FANTASTIC! WHY ARE THESE PHONY EARTHMEN TRYING TO EMBROIL EARTH AND TITAN IN A SPACE-WAR? WHAT CAN THEY HOPE TO GAIN BY THAT?
AT THEIR SHIP THE IMPOSTORS UNMASK THEMSELVES AS TITANIANS!
OUR PLAN IS UNDER WAY! IT WAS A SHOCKING COINCIDENCE WHEN THOSE REAL EARTHMEN SUDDENLY ARRIVED, BUT LUCKILY THEY WERE DISBELIEVED! THESE GIANT FALSE SHELLS WHICH WE MANIPULATED MADE US LOOK LIKE THE REAL "EARTHMEN"!
"WANTED! ZU-OK-QU, FOR TREASONOUS PLOTTING", THAT POSTER SAYS! MY PREVIOUS ATTEMPT TO WIN CONTROL OF TITAN FAILED BECAUSE THE PEACE REGIME CONTROLS ALL WAR WEAPONS! BUT I'LL WIN NOW, WITH MY CUNNING HOAX OF EARTH ATTACKING, BECAUSE...
"THE PEACE REGIME WILL BE [illegible] TO RELEASE [illegible] A BARRAGE OF GUIDED SLEEP BOMBS TO EARTH!"


A NUMBER NEARBY, THE BOMBS HAVE SPREAD AN ANESTHETIC GAS OVER EARTH'S AIR THAT PUTS ALL LIFE TO SLEEP FOR A TIME! THEN ATTACK WITH THE EARTH NOW HELPLESS AND REALLY READY!

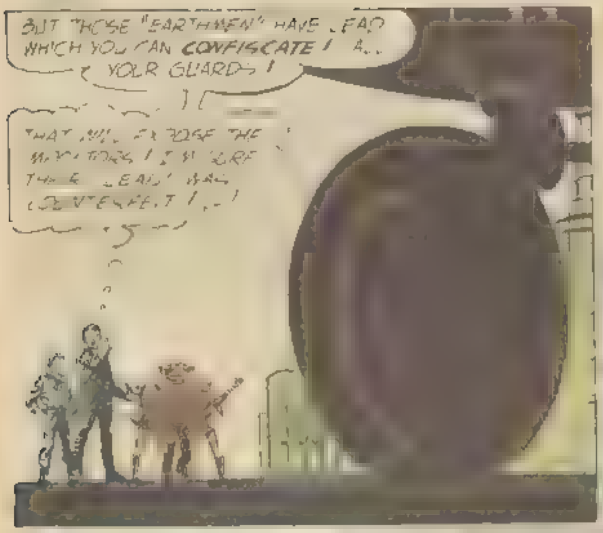

WHILE THE HUMANS SLEEP, WE WILL JOURNEY TO EARTH IN A STOLEN TITANIAN SPACESHIP AND ROB THEM OF THEIR URANIUM, WHICH IS UNKNOWN ON TITAN! USING URANIUM, OUR SCIENTISTS CAN MAKE AN ATOMIC BOMB WEAPON WITH WHICH WE CAN CONQUER TITAN!

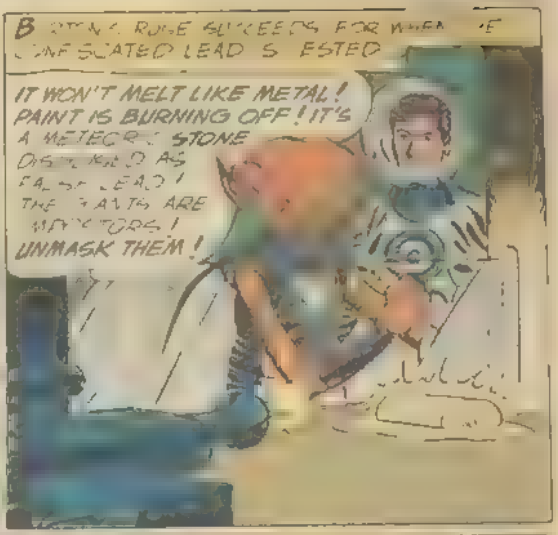

MEANWHILE, PAL AND HALOW HEAR IRONIC WORDS FROM THE SCIENTIST KU!
LUCKY YOU TWO ARE NOT EARTHMEN OR YOU WOULD BE OUR ENEMIES! YOU CAN WATCH HOW WE SHALL OVERWHELM WAR-LIKE EARTH-- WITH OUR SLEEP BOMBS!
EARTH IS INNOCENT! BUT THERE IS NO WAY TO PROVE IT UNLESS WE CAN PROVE WE ARE EARTHMEN! BUT... HOW?

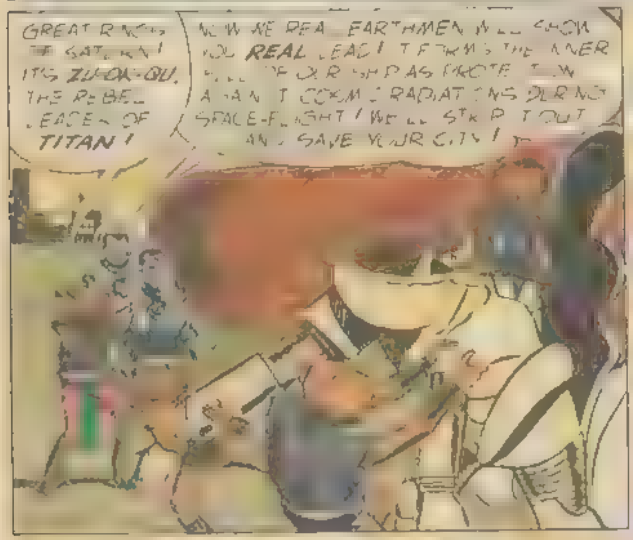

SUDDENLY PAL AND HALOW SPOT A SPACESHIP FROM TITAN!
WE HAVE ORBITED THROUGH THAT SPACE-CLOUD BEFORE! AS THE SUN'S RAYS PIERCE THROUGH IT A CHAIN REACTION OF NUCLEAR FLAME IS FORMED, CUTTING A SWATH OF DESTRUCTION ACROSS OUR WORLD!

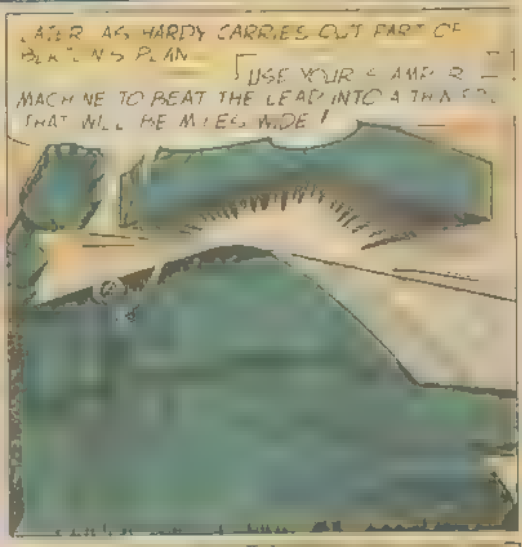

AFTER HASTY CALCULATIONS BY KU..
PREVIOUSLY THE PATH OF NUCLEAR FLAME CROSSED ONLY BARREN ICE-FIELDS AND DESERTS OF TITAN! BUT THIS TIME, IT WILL REACH AND DESTROY OUR CITY! THERE IS NO WAY TO STOP THE DEADLY NUCLEAR RADIATIONS!
YES THERE IS--

--WITH AN ATOMIC PILE! A SHIELD OF LEAD PREVENTS DEADLY ATOMIC RAYS FROM LEAKING OUT!
BUT YOU FORGOT THAT TITAN HAS NO LEAD!

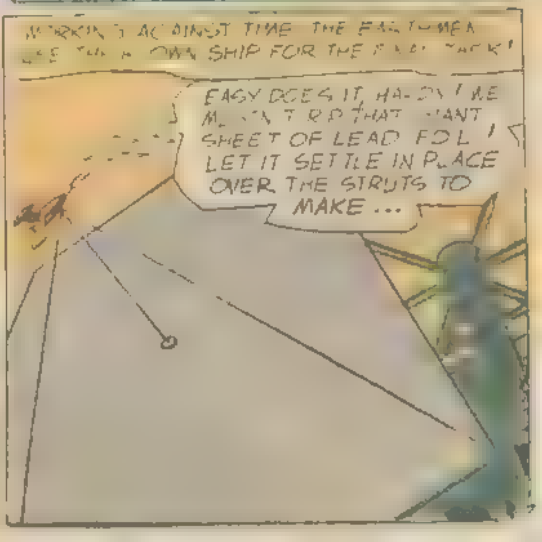

BUT THOSE "EARTHMEN" HAVE LEAD WHICH YOU CAN CONFISCATE! A... YOUR GUARDS!
THAT WILL EXPOSE THE MONITORS! I'M SURE THEIR "LEAD" HAS COUNTERFEIT!..

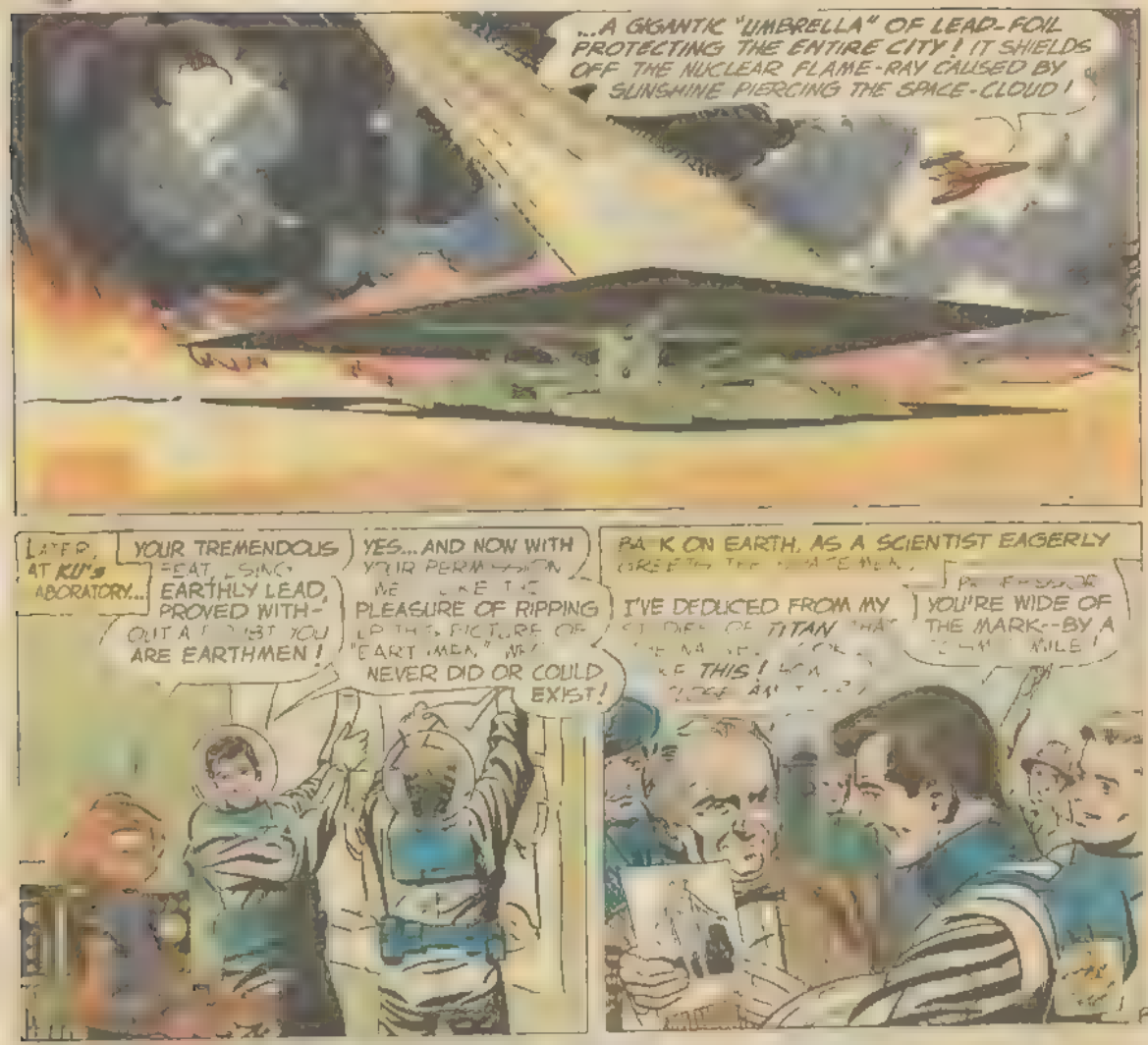

IT WON'T MELT LIKE METAL! PAINT IS BURNING OFF! IT'S A METEORIC STONE DISGUISED AS FALSE LEAD! THE MEN ARE MONITORS! UNMASK THEM!


GREAT RACES OF SATURN! IT'S ZUKOV-GU, THE REBEL LEADER OF TITAN!
NOW WE REAL EARTHMEN WILL SHOW YOU REAL LEAD! IT FORMS THE INNER WALL OF OUR SHIPS AND PROTECTION AGAINST COSMIC RADIATIONS DURING SPACE-FLIGHT! WE'LL STRIP IT OUT AND SAVE YOUR CITY!


LATER AS HARDY CARRIES OUT PART OF BURTON'S PLAN
USE YOUR CAMERA MACHINE TO BEAT THE LEAD INTO A THIN SHEET THAT WILL BE MILES WIDE!

MEANWHILE BURTON DETERMINEDLY ATTACKS THE MACHINERY OF TITAN!
HURRY THE PATH OF A CLEAR DESTRUCTION IS NEARING THE CITY! GET THOSE STRUTS IN PLACE ON THAT GIANT POLE!


WORKING AGAINST TIME THE EARTHMEN USE THEIR OWN SHIP FOR THE FINAL TASK!
EASY DOES IT, HARDY! WE MUST KEEP THAT GIANT SHEET OF LEAD FOIL! LET IT SETTLE IN PLACE OVER THE STRUTS TO MAKE...


...A GIGANTIC "UMBRELLA" OF LEAD-FOIL PROTECTING THE ENTIRE CITY! IT SHIELDS OFF THE NUCLEAR FLAME-RAY CAUSED BY SUNSHINE PIERCING THE SPACE-CLOUD!
LATER, AT KU'S LABORATORY...
YOUR TREMENDOUS FEAT, USING EARTHLY LEAD, PROVED WITHOUT A DOUBT YOU ARE EARTHMEN!
YES...AND NOW WITH YOUR PERMISSION ME LIKE TO PLEASURE OF RIPPING UP THE PICTURE OF "EARTHMEN," WHO NEVER DID OR COULD EXIST!
BACK ON EARTH, AS A SCIENTIST EAGERLY GREETS THE SPACEMEN,
I'VE DEDUCED FROM MY STUDIES OF TITAN THAT THE MAN OF THIS!
YOU'RE WIDE OF THE MARK--BY A MILE!

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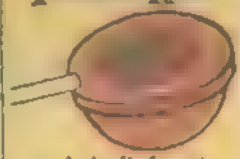

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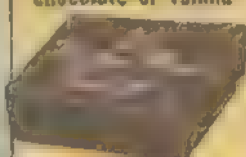

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So life-like that it even SOUNDS like a real jet! So authentic that Pan American Airways has authorized it as an Official Model! *And now it is yours complete—with nothing else to buy!—FOR A PRICE SO LOW THAT UNTIL TODAY IT WAS ENTIRELY IMPOSSIBLE.*

No Fuel! No Danger! Yet It Flies 600 Scale Miles An Hour!

Simply attach the U-Control Line as we show you to the left wing. Then suspend the model from this control line, and begin slowly to swing it through the air. *Before your astonished eyes, you will see one of the most thrilling aerodynamic sights of your entire life!*

This model is perfectly designed for high-speed flight! As soon as it picks up power from the motion of your hand, it will lift up its nose, its wings will begin to cut through the air, it will flash upward and streak ahead of you! As you give it more and more line it will turn wider and wider, fly faster and faster! You have perfect control every second of its flight! You can fly it in circles only five feet wide, *or you can take it outdoors and fly it in gigantic arcs one hundred feet wide—the size of an entire city lot—so fast that your eye can hardly follow it—BUT EVERY SECOND UNDER YOUR COMPLETE CONTROL!*

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